

**What Is Claimed Is:**

1 1. A modem for receiving and transmitting data on a telephone line, said modem  
2 comprising:

3 a transformer having a primary coil and a secondary coil, said primary coil having a  
4 plurality of windings, said secondary coil being connected to said telephone line; and

5 a coder-decoder (CODEC) converting a digital transmit data to an analog transmit  
6 signal and transmitting said analog transmit signals using a first set of windings, said CODEC  
7 receiving an analog receive signal on a second set of windings and converting said analog  
8 receive signal to a digital receive data, said first set of windings and said second set of  
9 windings being contained in said plurality of windings, said first set of windings containing  
10 a fewer number of windings than said second set of windings.

1 2. The modem of claim 1, wherein said second set of windings comprises said  
2 plurality of windings and said first set of windings comprises a subset of said plurality of  
3 windings.

1 3. The modem of claim 2, further comprising a digital signal processor (DSP)  
2 performing signal processing operation on said digital receive data to recover the data  
3 encoded on a signal received on said telephone line.

1 4. The modem of claim 2, wherein said CODEC comprises:

2 a network transmitting said analog transmit signal using said subset of windings, said  
3 network generating a subtraction component representing an echo voltage generated by

4 transmitting said analog transmit signal;  
5 an echo cancellation unit receiving said analog receive signal present on said plurality  
6 of windings and subtracting said subtraction component from said analog receive signal to  
7 generate a signal of interest representing data received on said telephone line;  
8 an analog to digital converter (ADC) generating said digital receive data from said  
9 signal of interest, wherein said DSP is coupled to receive said digital receive data generated  
10 by said ADC; and  
11 a digital to analog converter (DAC) converting said digital transmit data to said  
12 analog transmit signal.

1 5. The modem of claim 4, wherein said network comprises a plurality of impedances,  
2 wherein said subtraction component is measured across one of said plurality of impedances.

1 6. The modem of claim 4, wherein said echo cancellation unit comprises a differential  
2 amplifier and a plurality of resistors, wherein said differential amplifier subtracts said  
3 subtraction component from said analog receive signal to generate said signal representing  
4 said data transmitted on said telephone line.

1 7. The modem of claim 1, wherein said plurality of windings comprise all windings  
2 present in said primary coil.

1 8. A modem for receiving and transmitting data on a telephone line, said modem  
2 comprising:  
3 means for converting a digital transmit data to an analog transmit signal;

4 means for transmitting said analog transmit signal using a first set of windings of a  
5 primary coil of a transformer; and

6 means for receiving an analog receive signal using a second set of windings of said  
7 primary coil, wherein said first set of windings and said second set of windings are contained  
8 in said plurality of windings, said first set of windings containing a fewer number of windings  
9 than said second set of windings.

1 9. The modem of claim 8, further comprising:

2 means for generating a subtraction component representing an echo voltage generated  
3 by said transmitting; and

4 means for subtracting said subtraction component from said analog receive signal to  
5 generate a signal of interest representing data received on said telephone line.

1 10. The modem of claim 9, wherein said second set of windings comprises said  
2 plurality of windings and said first set of windings comprises a subset of said plurality of  
3 windings.

1 11. A system comprising:

2 a processor sending a digital transmit data and receiving a digital receive data; and  
3 a modem sending said digital transmit data on a telephone line, said modem  
4 generating said digital receive data based on a signal of interest received on said telephone  
5 line, said modem comprising:

6 a transformer having a primary coil and a secondary coil, said primary coil  
7 having a plurality of windings, said secondary coil being connected to said telephone

line; and

a coder-decoder (CODEC) converting said digital transmit data to an analog transmit signal and transmitting said analog transmit signals using a first set of windings, said CODEC receiving an analog receive signal on a second set of windings and converting said analog receive signal to a digital receive data, said first set of windings and said second set of windings being contained in said plurality of windings, said first set of windings containing a fewer number of windings than said second set of windings.

12. The system of claim 11, wherein said second set of windings comprises said plurality of windings and said first set of windings comprises a subset of said plurality of windings.

13. The system of claim 12, further comprising a digital signal processor (DSP) performing signal processing operation on said digital receive data to recover the data encoded on a signal received on said telephone line.

14. The system of claim 12, wherein said CODEC comprises:

a network transmitting said analog transmit signal using said subset of windings, said network generating a subtraction component representing an echo voltage generated by transmitting said analog transmit signal;

an echo cancellation unit receiving said analog receive signal present on said plurality of windings and subtracting said subtraction component from said analog receive signal to generate a signal of interest representing data received on said telephone line;

8 an analog to digital converter (ADC) generating said digital receive data from said  
9 signal of interest, wherein said DSP is coupled to receive said digital receive data generated  
10 by said ADC; and

11 a digital to analog converter (DAC) converting said digital transmit data to said  
12 analog transmit signal.

1 15. The system of claim 14, wherein said network comprises a plurality of  
2 impedances, wherein said subtraction component is measured across one of said plurality of  
3 impedances.

1 16. The system of claim 14, wherein said echo cancellation unit comprises a  
2 differential amplifier and a plurality of resistors, wherein said differential amplifier subtracts  
3 said subtraction component from said analog receive signal to generate said signal  
4 representing said data transmitted on said telephone line.

1 17. The system of claim 11, wherein said plurality of windings comprise all windings  
2 present in said primary coil.

1 18. The system of claim 11, wherein said modem is implemented according to digital  
2 subscriber loop (DSL) technology.

1 19. The system of claim 18, wherein said modem is implemented according to  
2 asymmetric DSL technology.

1 20. A method of for transmitting and receiving data on a telephone line, said method  
2 comprising:  
3 converting a digital transmit data to an analog transmit signal;  
4 transmitting said analog transmit signal using a first set of windings of a primary coil  
5 of a transformer; and  
6 receiving an analog receive signal using a second set of windings of said primary coil,  
7 wherein said first set of windings and said second set of windings are contained in said  
8 plurality of windings, said first set of windings containing a fewer number of windings than  
9 said second set of windings.

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